VPDES PERMIT PROGRAM FACT SHEET

FILE NO: 728

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as a **MAJOR, INDUSTRIAL** permit.

1. **PERMIT NO.**: VA0004103 **EXPIRATION DATE**: August 15, 2012

2. **FACILITY NAME AND LOCAL MAILING ADDRESS**

Dominion – Yorktown Power Station
1600 Waterview Road
Yorktown, VA 23692

CONTACT AT FACILITY:
NAME: Cathy C. Taylor
TITLE: Director Electric Environmental Services
PHONE: (804)273-2929
EMAIL: Cathy.C.Taylor@dom.com

FACILITY LOCATION ADDRESS (IF DIFFERENT)

CONTACT AT LOCATION ADDRESS
NAME: Laura A. Shumaker
TITLE: Environmental Compliance Coordinator
PHONE: (757)898-2555
EMAIL: Laura.A.Shumaker@dom.com

3. **OWNER CONTACT**: (TO RECEIVE PERMIT)
NAME: C.D. Holley
TITLE: V.P. Fossil & Hydro Systems Operations
COMPANY NAME: (IF DIFFERENT)
ADDRESS: 5000 Dominion Blvd.
Glenn Allen, VA 23060
PHONE: (804)273-2929
EMAIL:

CONSULTANT CONTACT:
NAME:
FIRM NAME:

ADDRESS:

PHONE: ( )
EMAIL:

4. **PERMIT DRAFTED BY**: DEQ, Water Permits, Regional Office

Permit Writer(s): Melinda Woodruff Date(s): April 6, 2012 – May 22, 2012
Reviewed By: Sauer (Rhe) Date(s): 5/23-24/12, 6/1/12

5. **PERMIT ACTION:**

( ) Issuance (x) Reissuance ( ) Revoke & Reissue ( ) Owner Modification
( ) Board Modification ( ) Change of Ownership/Name [Effective Date:]

6. **SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS:**

Attachment 1	Site Inspection Report/Memorandum
Attachment 2	Discharge Location/Topographic Map
Attachment 3	Schematic/Plans & Specs/Site Map/Water Balance
Attachment 4	TABLE I - Discharge/Outfall Description
Attachment 5	TABLE II - Effluent Monitoring/Limitations
Attachment 6	Effluent Limitations/Monitoring Rationale/Suitable Data/Antidegradation/Antibacksliding
Attachment 7	Special Conditions Rationale
Attachment 8	Toxics Monitoring/Toxics Reduction/WET Limit Rationale
Attachment 9	Material Stored
Attachment 10	Receiving Waters Info./Tier Determination/STORET Data/Stream Modeling/303(d) Listed Segments
Attachment 11	TABLE III(a) and TABLE III(b) - Change Sheets
Attachment 12	NPDES Industrial Permit Rating Worksheet and EPA Permit Checklist
Attachment 13	Chronology Sheet
Attachment 14	Public Participation

APPLICATION COMPLETE: March 12, 2012

7. **PERMIT CHARACTERIZATION:** (Check as many as appropriate)

(x) Existing Discharge
( ) Proposed Discharge
( ) Municipal
SIC Code(s)
(x) Industrial
SIC Code(s) 4911
( ) POTW
( ) PVOTW
(x) Private
( ) Federal
( ) State
( ) Publicly-Owned Industrial

(x) Effluent Limited
(x) Water Quality Limited
( ) WET Limit
( ) Interim Limits in Permit
( ) Interim Limits in Other Document
( ) Compliance Schedule Required
( ) Site Specific WQ Criteria
( ) Variance to WQ Standards
( ) Water Effects Ratio
(x) Discharge to 303(d) Listed Segment
(x) Toxics Management Program Required
( ) Toxics Reduction Evaluation
(x) Storm Water Management Plan
( ) Pretreatment Program Required
( ) Possible Interstate Effect
( ) CBP Significant Dischargers List

8. **RECEIVING WATERS CLASSIFICATION**: River basin information.

Outfall No(s): 001, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 002, 202, 203, 204, 205, 005, 006, 007, 008, 011, 014, 015, 016

Receiving Stream:	York River
River Mile:	see attachment 10
Basin:	York River
Subbasin:	NA
Section:	1
Class:	II
Special Standard(s):	a, NEW-17
Tidal:	YES
7-Day/10-Year Low Flow:	NA
1-Day/10-Year Low Flow:	NA
30-Day/5-Year Low Flow:	NA

Outfall No(s): 009 and 010

Receiving Stream:	Unnamed Tributary to the York River
River Mile:	see attachment 10
Basin:	York River
Subbasin:	NA
Section:	1
Class:	II
Special Standard(s):	a, NEW-17
Tidal:	YES
7-Day/10-Year Low Flow:	NA
1-Day/10-Year Low Flow:	NA
30-Day/5-Year Low Flow:	NA
Harmonic Mean Flow:	NA

Outfall No(s): 003, 004 and 017

Receiving Stream:	Unnamed Tributary to Chisman Creek
River Mile:	see attachment 10
Basin:	Chesapeake Bay, Atlantic Ocean and Small Coastal
Subbasin:	NA
Section:	2d
Class:	III
Special Standard(s):	None
Tidal:	YES
7-Day/10-Year Low Flow:	NA
1-Day/10-Year Low Flow:	NA
30-Day/5-Year Low Flow:	NA
Harmonic Mean Flow:	NA

Outfall No(s): 012 and 013

Receiving Stream:	Unnamed Tributary to Wormley Creek
River Mile:	see attachment 10
Basin:	York River
Subbasin:	NA
Section:	1
Class:	II
Special Standard(s):	a,NEW-17
Tidal:	YES
7-Day/10-Year Low Flow:	NA
1-Day/10-Year Low Flow:	NA
30-Day/5-Year Low Flow:	NA
Harmonic Mean Flow:	NA

9. **FACILITY DESCRIPTION:** Describe the type facility from which the discharges originate.

Existing industrial discharge resulting from the generation of electricity with steam produced by the combustion of fossil fuels.

10. **LICENSED OPERATOR REQUIREMENTS:** ( ) No (x) Yes Class: III

11. **RELIABILITY CLASS:** Industrial Facility - NA

12. **SITE INSPECTION DATE:** August 27, 2009 **REPORT DATE:** September 2, 2009

Performed By: Clyde Gantt

SEE ATTACHMENT 1

13. **DISCHARGE(S) LOCATION DESCRIPTION:** Provide USGS Topo which indicates the discharge location, significant (large) discharger(s) to the receiving stream, water intakes, and other items of interest.

Name of Topo: Poquoson West Quadrant No.: 65B **SEE ATTACHMENT 2**

14. **ATTACH A SCHEMATIC OF THE WASTEWATER TREATMENT SYSTEM(S) [IND. & MUN.]. FOR INDUSTRIAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND ACTIVITIES. FOR MUNICIPAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE TREATMENT PROVIDED.**

SEE ATTACHMENT 3 (CAN ALSO REFERENCE TABLE I)

15. **DISCHARGE DESCRIPTION:** Describe each discharge originating from this facility.

SEE **TABLE I** (OR CAN SUBSTITUTE PAGE 2C) - **SEE ATTACHMENT 4**

16. **COMBINED TOTAL FLOW:**

TOTAL: 963.7 MGD (for public notice)

PROCESS FLOW: 962 MGD (IND.)

NONPROCESS/RAINFALL DEPENDENT FLOW: 1.7 (Est.)

17. **STATUTORY OR REGULATORY BASIS FOR EFFLUENT LIMITATIONS AND SPECIAL CONDITIONS:**
(Check all which are appropriate)

- X State Water Control Law
- X Clean Water Act
- X VPDES Permit Regulation (9 VAC 25-31-10 et seq.)
- X EPA NPDES Regulation (Federal Register)
- ___ EPA Effluent Guidelines (40 CFR 133 or 400 - 471)
- X Water Quality Standards (9 VAC 25-260-5 et seq.)
- ___ Wasteload Allocation from a TMDL or River Basin Plan

18. **EFFLUENT LIMITATIONS/MONITORING:** Provide all limitations and monitoring requirements being placed on each outfall.

SEE TABLE II - ATTACHMENT 5

19. **EFFLUENT LIMITATIONS/MONITORING RATIONALE**: Attach any analyses of an outfall by individual toxic parameter. As a minimum, it will include: statistics summary (number of data values, quantification level, expected value, variance, covariance, 97th percentile, and statistical method); wasteload allocation (acute, chronic and human health); effluent limitations determination; input data listing. Include all calculations used for each outfall and set of effluent limits and those used in any model(s). Include all calculations/documentation of any antidegradation or anti-backsliding issues in the development of any limitations; complete the review statements below. Provide a rationale for limiting internal waste streams and indicator pollutants. Attach chlorine mass balance calculations, if performed. Attach any additional information used to develop the limitations, including any applicable water quality standards calculations (acute, chronic and human health).

OTHER CONSIDERATIONS IN LIMITATIONS DEVELOPMENT:

VARIANCES/ALTERNATE LIMITATIONS: Provide justification or refutation rationale for requested variances or alternatives to required permit conditions/limitations. This includes, but is not limited to: waivers from testing requirements; variances from technology guidelines or water quality standards; WER/translator study consideration; variances from standard permit limits/conditions.

N/A

SUITABLE DATA: In what, if any, effluent data were considered in the establishment of effluent limitations and provide all appropriate information/calculations.

All suitable effluent data were reviewed.

ANTIDEGRADATION REVIEW: Provide all appropriate information/calculations for the antidegradation review.

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses.

ANTIBACKSLIDING REVIEW: Indicate if antibacksliding applies to this permit and, if so, provide all appropriate information.

There are no backsliding issues to address in this permit (i.e., limits as stringent or more stringent when compared to the previous permit).

SEE ATTACHMENT 6

20. **SPECIAL CONDITIONS RATIONALE**: Provide a rationale for each of the permit's special conditions.

SEE ATTACHMENT 7

21. **TOXICS MONITORING/TOXICS REDUCTION AND WET LIMIT SPECIAL CONDITIONS RATIONALE**: Provide the justification for any toxics monitoring program and/or toxics reduction program and WET limit.

SEE ATTACHMENT 8

22. **SLUDGE DISPOSAL PLAN**: Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

N/A

23. **MATERIAL STORED**: List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

SEE ATTACHMENT 9

24. **RECEIVING WATERS INFORMATION**: Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.). **Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied.** Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE ATTACHMENT 10

25. **305(b)/303(d) Listed Segments**: Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to unnamed tributary of the York River and directly to the York River, and to Chisman Creek and Wormley Creek. This receiving stream segment has been listed in Category 5 of the 305(b)/303(d) list for non-attainment of: 1)the dissolved oxygen standard for open water-summer, 2) fish consumption due to PCB in fish tissue, 3)aquatic life use - dissolved oxygen, estuarine bioassessments, aquatic plants (macrophytes), 4) shallow-water submerged aquatic vegetation - aquatic plants (macrophytes). EPA approved the Chesapeake Bay TMDL December 29, 2010 for: nitrogen, phosphorus, TSS. TMDL report for shellfish areas listed due to bacterial contamination, approved August 2, 2006 for fecal coliform and enterococci. The facility was not assigned individual waste load allocations.

The permit contains water quality based limits for TSS and TP and water quality monitoring for enterococci. The permit contains a TMDL reopener to allow the permit to be modified in the future to address individual waste load allocations.

26. **CHANGES TO PERMIT**: Use **TABLE III(a)** to record any changes from the previous permit and the rationale for those changes. Use **TABLE III(b)** to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE ATTACHMENT 11

27. **NPDES INDUSTRIAL PERMIT RATING WORKSHEET**:

TOTAL SCORE: 600 **SEE ATTACHMENT 12**

28. **DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT**: Document any comments received from DEQ planning.

The discharge is in conformance with the existing planning documents for the area.

OR

The discharge is not addressed in any planning document but will be included when the plan is updated.

29. **PUBLIC PARTICIPATION**: Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and the Div. of Shellfish Sanitaiton and noted how resolved.

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit.

The DSS has no comments on the application/draft permit.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA waived the right to comment and/or object to the adequacy of the draft permit.

OR

EPA has no objections to the adequacy of the draft permit.

OR

By letter dated _____, the EPA provided the following comments:

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

OR

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation. Section 9 VAC 35-31-310 of the VPDES Permit Regulation states, in part, "The Board shall hold a public hearing whenever it finds, on the basis of requests, a significant degree of public interest in a draft permit(s)."

DESCRIBE PN COMMENTS AND RESOLUTIONS. PROVIDE PUBLIC HEARING DATE AND REFERENCE BACKGROUND MEMORANDUM, IF APPROPRIATE.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date
End Date

Persons may comment in writing or by e-mail to the DEQ on the proposed issuance/reissuance/modification of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Melinda Woodruff at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2174 E-mail: Melinda.Woodruff@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

ATTACHMENT 1

SITE INSPECTION REPORT/MEMORANDUM

Facility:	DOMINION – YORKTOWN POWER STATION
County/city:	YORK COUNTY

VPDES NO.	VA0004103

DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTEWATER FACILITY
INSPECTION REPORT
PART 1

Inspection date:	**August 27, 2009**	Date form completed:	**Sept. 2, 2009**
Inspection by:	**Clyde Gantt**	Inspection agency:	**DEQ/TRO**
Time spent:	**8 Hours**	Announced Inspection:	[ ] Yes [X] No
Reviewed by: **Kenneth T. Raum**		Photographs taken at site?	[ ] Yes [X] No
Present at inspection:	**Bruce Easley – Sr. Env. Compliance Coord.**		

FACILITY TYPE:	FACILITY CLASS:
( ) Municipal	(X) Major
(X) Industrial	( ) Minor
( ) Federal	( ) Small
( ) VPA/NDC	( ) High Priority ( ) Low Priority

TYPE OF INSPECTION:

Routine	**X**	Reinspection		Compliance/assistance/complaint	

Date of previous inspection:	**April 19, 2007**	Agency:	**DEQ/TRO**

Last Month Average: Effluent - 002	TP (mg/l)	**0.05**	Cl2 (mg/l)	**<QL**	Flow (MGD)	**658**	pH (s.u.)	**7.56**
	Other:							
Last Quarter Average: Effluent - 002	TP (mg/l)	**0.05**	Cl2 (mg/l)	**<QL**	Flow (MGD)	**654**	pH (s.u.)	**7.56 – 7.79**
	Other:							

Data verified in preface:	Updated?		NO CHANGES?	**X**
Has there been any new construction?		YES	NO	**X**
If yes, were the plans and specifications approved?		YES	NO	
DEQ approval date:				

COPIES TO: (X) DEQ/TRO; (X) DEQ/OWCP; (X) OWNER; ( ) OPERATOR; ( ) EPA-Region III; ( ) Other:

PLANT OPERATION AND MAINTENANCE												
1.	Does the plant have an established program for training personnel						YES	X	NO			
2.	Describe the adequacy of training	GOOD	X	AVERAGE		POOR						
3.	Are preventative maintenance tasks scheduled						YES	X	NO			
4.	Describe the adequacy of maintenance	GOOD	X	AVERAGE		POOR						
5.	Does the plant experience any organic/hydraulic overloading?						YES		NO	X		
	If yes, identify cause/impact on plant											
6.	Any bypassing since last inspection?						YES		NO	X		
7.	Is the STP alarm system operational?			YES	X	NO			NA			

OVERALL APPEARANCE OF FACILITY	GOOD		AVERAGE	X	POOR	

COMMENTS:	

Storm Water P3 available and up dated? PIII, F. & G.	YES	X	NO	
Outfalls identified in SWP3? Site Map with Drainage and Flows available? PIII, B.2.c.1-10	YES	X	NO	
If there has been any new construction, were the plans and specifications approved and the SWP3 amended? PII, J.1.	YES	N/A	NO	
Housekeeping and Preventive Maintenance? PIII, B.6.b (1), (a) & (c)	YES	X	NO	
Quarterly Visual Examination of SW Quality? Results available? PI, A.1.a.	YES	X	NO	
Inspections? (1/3M) PIII, B.6.b. (1) (e)	YES	X	NO	
Training (Annual)? PIII, B.6.b. (1) (f)	YES	X	NO	
Non-stormwater Certification? PIII, D.1.a.	YES	N/A	NO	
Comprehensive Site Evaluation and Report. Certification of Compliance or issues of non-compliance? PIII, E.	YES	X	NO	
Oil or other Hazardous Spills? PIII, B.4. & B.6.b. (1)(d)	YES	X	NO	

PLANT RECORDS

	WHICH OF THE FOLLOWING RECORDS DOES THE PLANT MAINTAIN?						
	Operational logs for industrial discharges	YES	X	NO		NA	
	Instrument maintenance and calibration	YES	X	NO		NA	
	Mechanical equipment maintenance	YES	X	NO		NA	
1.	Industrial waste contribution (municipal facilities)	YES		NO		NA	X

	WHAT DOES THE OPERATIONAL LOG CONTAIN					
	Visual Observations	X	Flow Measurement	X	Laboratory Results	X
2.	Process Adjustments	N/A	Control Calculations	N/A	Other?	

COMMENTS:

	WHAT DO THE MECHANICAL EQUIPMENT RECORDS CONTAIN?					NA	
	MFG. Instructions	X	As Built Plans/specs	X	Spare Parts Inventory		X
3.	Lube Schedules	X	Other?		Equipment/parts Suppliers		X

COMMENTS:

COMMENTS:

	WHICH OF THE FOLLOWING RECORDS ARE AT THE PLANT & AVAILABLE TO PERSONNEL?					NA	
	Equipment Maintenance Records	X	Industrial Contributor Records				
4.	Operational Log	X	Sampling/testing Records	X	Instrumentation Records		X
5.	Records not normally available to personnel at their location:	**None**					
6.	Were the records reviewed during the inspection	YES	X	NO			
7.	Are records adequate and the O&M manual current?	YES	X	NO			
8.	Are the records maintained for the required 3-year time period	YES	X	NO			

COMMENTS:

SAMPLING									
1.	Are sampling locations capable of providing representative samples?					YES	X	NO	
2.	Do sample types correspond to VPDES permit requirements?					YES	X	NO	
3.	Do sampling frequencies correspond to VPDES permit requirements?					YES	X	NO	
4.	Does plant maintain required records of sampling?					YES	X	NO	
5.	Are composite samples collected in proportion to flow?	YES		NO		NA	X		
6.	Are composite samples refrigerated during collection?	YES		NO		NA	X		
7.	Does the plant run operational control tests?	YES	X	NO		NA			

COMMENTS:

TESTING							
	Who performs the testing?	Plant	X	Central Lab	X	Commercial Lab	
1.	Name:						

IF THE PLANT PERFORMS ANY TESTING, PLEASE COMPLETE QUESTIONS 2-4

2.	Which total residual chlorine method is used?	**Hach Pocket Colorimeter**					
3.	Does plant appear to have sufficient equipment to perform required tests?	YES	X	NO			
4.	Does testing equipment appear to be clean and/or operable?	YES	X	NO			

COMMENTS: **See lab inspection report.**

FOR INDUSTRIAL FACILITIES WITH TECHNOLOGY BASED LIMITS ONLY							
1.	Is the production process as described in permit application? If no, describe changes in comments section.	YES	X	NO		NA	
2.	Are products/production rates as described in the permit application? If no list differences in comments section.	YES	X	NO		NA	
3.	Has the Agency been notified of the changes and their impact on plant effluent? Date agency notified:	YES		NO		NA	X

COMMENTS: **Outfalls 003, 004, 101, 102 & 103 have limits based on Federal Effluent Guidelines, which are technology based.**

PROBLEMS IDENTIFIED AT LAST INSPECTION:		CORRECTED	NOT CORRECTED
1.	None noted.		

SUMMARY

INSPECTION COMMENTS:	
1.	Outfall 001 – Condenser Cooling Water (Pumped): No discharge.
2.	Outfall 002 – Condenser Cooling Water (Weir Overflow): Small amount of foam; greenish color; no problems noted.
3.	003/004 – Ash Sedimentation Ponds: No problems noted. See attached checklist.
4.	008 – Stormwater From Ash Handling Area: Actual ash loading area contained with closed loop dust suppression system. Storm drains in this area have straw bales around the drop inlets.
5.	010 – Stormwater From Warehouse area: No discharge, no problems noted.
6.	011 – Stormwater From South of Switchyard/Along RR Tracks: Coal noted along RR tracks. No discharge, standing water clear. Phragmites growing thickly in ditch, would appear to make it difficult to get a sample. No other problems noted.
7.	012 – Stormwater from entrance area/part of ash haul road: No discharge, no problems noted.
8.	101 – "Finger" Ponds: Operated in series. See attached checklist.
9.	102 – Metals Pond: Seldom used or discharges now that landfill leachate is discharged to HRSD system. Phragmites growing around edges. No discharge, no problems noted.
10.	103 – Coal Pile Runoff Pond: Distinct red color. Discharge into cooling canal appears to precipitate iron due to pH change. See attached checklist.
11.	106/107 – Parking Lot Drains near Main Buildings: No discharge, not problems noted. Parking lots clean.
12.	108 – Reboiler Building Parking Lot: No discharge, not problems noted.
13.	202, 203 & 204 – 002 Pumps Area Sump, Sump Back-up & Seal Water: Seal water no longer used, pumps now operate without it. No discharges, no problems noted.
14.	The facility was generally clean and appears well maintained.

COMPLIANCE RECOMMENDATIONS FOR ACTION:	
1.	None. No deficiencies noted.

UNIT PROCESS:	**ASH DISPOSAL PONDS OUTFALLS 003 & 004**

	PRIMARY	X	SECONDARY		TERTIARY		YES	NO	NA
1.	Number of units				3				
2.	Number units in operation				3				
3.	Proper flow distribution between units						X		
4.	Sludge collection system working properly?						X		
5.	Signs of short circuiting and/or overloads								X
6.	Effluent weirs level						X		
7.	Effluent weirs clean						X		
8.	Scum collection system working properly								X
9.	Influent/effluent baffle system working properly								X
10.	Chemical Used				Chemical Addition				X
11.	Effluent characteristics			**Clear**					
GENERAL CONDITION:	GOOD		FAIR		X	POOR			

COMMENTS:	**Stormwater from active ash landfill cells flows to the center pond. That pond overflows to both of the other ponds. No problems noted with 003 pond. 004 pond shallow with some algal growth.**

UNIT PROCESS:	**OIL RETENTION BASIN**

			YES	NO	NA
1.	Number of units	1			
2.	Number units in operation	1			
3.	Proper flow distribution between units				X
4.	Sludge collection system working properly?				X
5.	Signs of short circuiting and/or overloads			X	
6.	Effluent weirs level				X
7.	Effluent weirs clean				X
8.	Scum collection system working properly		X		
9.	Influent/effluent baffle system working properly		X		
10.	Chemical Used	Chemical Addition			X
11.	Effluent characteristics	**No Discharge**			

GENERAL CONDITION:	GOOD		FAIR	X	POOR	

COMMENTS:	**Sediment being removed from pond by excavator. Work performed in area that is contained and drains to basin. Several oil booms in place across basin. Oil skimmer working. Manual discharge to finger ponds. Receives discharge from bulk oil tank bermed area. Bermed area clean and dry.**

UNIT PROCESS:	**NORTH & SOUTH FINGER PONDS OUTFALL 101**

			YES	NO	NA
1.	Number of units	2			
2.	Number units in operation	2			
3.	Proper flow distribution between units				X
4.	Signs of short circuiting and/or overloads			X	
5.	Effluent weirs level				X
6.	Effluent weirs clean				X
7.	Scum collection system working properly				X
8.	Influent/effluent baffle system working properly		X		
9.	Chemical Used	Chemical Addition			X
10.	Effluent characteristics	**Clear**			

GENERAL CONDITION:	GOOD		FAIR	X	POOR	

COMMENTS:	**Receives flow from oil retention basin, power plant floor drains and ash loading area. The ponds operate in series, with the north pond flowing to the south pond and then discharging to the cooling canal. Duckweed in both ponds. Discharge is measured with an ultrasonic meter on the end of the discharge pipe. Last flowmeter calibration 12/3/08. There may be some discharge pipe infiltration as the pond was not overflowing into pipe, but there was a low volume discharge.**

UNIT PROCESS:	**COAL PILE RUNOFF POND OUTFALL 103**

			YES	NO	NA
1.	Number of units	1			
2.	Number units in operation	1			
3.	Proper flow distribution between units				X
4.	Signs of short circuiting and/or overloads			X	
5.	Effluent weirs level				X
6.	Effluent weirs clean				X
7.	Scum collection system working properly				X
8.	Influent/effluent baffle system working properly		X		
9.	Chemical Used	Chemical Addition			X
10.	Effluent characteristics	**Low volume; red color.**			

GENERAL CONDITION:	GOOD		FAIR	X	POOR	

COMMENTS:	**Wastewater in the pond has a distinct deep red color. Discharge into cooling canal becomes a mud colored plume. Change apparently due to differences in pH and possible iron precipitation.**

UNIT PROCESS:	**EFFLUENT/PLANT OUTFALL**

									YES	NO	NA
1.	Type of outfall		Shore Based	X	Submerged	X					
	TYPE IF SHORE BASED:										
2.	Wingwall		Headwall	X	Rip Rap		Pipe				
3.	Flapper valve present?								202		
4.	Erosion of bank area?									X	
5.	Effluent plume visible?								103		
	Condition of outfall and the supporting structure?										
6.	GOOD		FAIR	X	POOR						
	FINAL EFFLUENT, EVIDENCE OF FOLLOWING PROBLEMS?										
	Oil sheen?									X	
	Grease?									X	
	Sludge bar?									X	
	Turbid effluent?								103		
	Visible foam?								X		
7.	Unusual color?									X	

GENERAL CONDITION:	GOOD		FAIR	X	POOR	

COMMENTS:	**Outfall 001 not used very often. Usually due to low flow.**

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
www.deq.virginia.gov

L. Preston Bryant, Jr.
Secretary of Natural Resources

David K. Paylor
Director

Francis L. Daniel
Regional Director

September 14, 2009

Ms. Cathy Taylor
Director, Electrical Environmental Services
5000 Dominion Blvd.
Glen Allen, VA 23060

Re: Inspection Report
Dominion – Yorktown Power Station (VA0004103)

Dear Ms. Taylor:

Enclosed is a copy of the report prepared for the inspection conducted at the subject Dominion facility on August 27, 2009. No problems or deficiencies were noted during the inspection.

If you have any questions regarding this report, please feel free to contact me at the above address, telephone (757) 518-2114, or email: clyde.gantt@deq.virginia.gov.

Sincerely,

Clyde K. Gantt
CAFO / Biosolids Inspector

Enclosure
cc: DEQ/OWCP: Steve Stell

DEQ/TRO: File

DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION
LABORATORY INSPECTION REPORT

10/01

FACILITY NO:	INSPECTION DATE:	PREVIOUS INSP. DATE:	PREVIOUS EVALUATION:	TIME SPENT:
VA0004103	August 27, 2009	April 19, 2007	Deficiencies	5 Hours

NAME/ADDRESS OF FACILITY:

Dominion – Yorktown Power Station
1600 Waterview Road
Yorktown, VA 23692

FACILITY CLASS:

(X) MAJOR
( ) MINOR
( ) SMALL
( ) HIGH PRIORITY
( ) LOW PRIORITY

FACILITY TYPE:

( ) MUNICIPAL
(X) INDUSTRIAL
( ) FEDERAL
( ) COMMERCIAL LAB
( ) VPA/NDC

UNANNOUNCED INSPECTION?
(X) YES
( ) NO

FY-SCHEDULED INSPECTION?
(X) YES
( ) NO

INSPECTOR(S):
Clyde Gantt

REVIEWERS:
Kenneth T. Raum

PRESENT AT INSPECTION:
Dale Ludi – Chemist II

LABORATORY EVALUATION	DEFICIENCIES? Yes	No
LABORATORY RECORDS	X	
GENERAL SAMPLING & ANALYSIS		X
LABORATORY EQUIPMENT		X
pH ANALYSIS PROCEDURES		X
TOTAL RESIDUAL CHLORINE ANALYSIS PROCEDURES		X

QUALITY ASSURANCE/QUALITY CONTROL

Y/N	QUALITY ASSURANCE METHOD	PARAMETERS	FREQUENCY
Y	REPLICATE SAMPLES		
	SPIKED SAMPLES		
Y	STANDARD SAMPLES		
	SPLIT SAMPLES		
Y	SAMPLE BLANKS		
	OTHER		
	EPA-DMR QA DATA?	RATING: ( ) No Deficiency ( ) Deficiency (X) NA	
	QC SAMPLES PROVIDED?	RATING: ( ) No Deficiency ( ) Deficiency (X) NA	

COPIES TO: (X) DEQ/TRO; (X) DEQ/OWCP; (X) OWNER; ( ) EPA-Region III; ( ) Other:

FACILITY #: VA0004103

LABORATORY RECORDS SECTION

LABORATORY RECORDS INCLUDE THE FOLLOWING:

X	SAMPLING DATE	X	ANALYSIS DATE		CONT MONITORING CHART
X	SAMPLING TIME	X	ANALYSIS TIME	X	INSTRUMENT CALIBRATION
X	SAMPLE LOCATION	X	TEST METHOD		INSTRUMENT MAINTENANCE
				X	CERTIFICATE OF ANALYSIS

WRITTEN INSTRUCTIONS INCLUDE THE FOLLOWING:

X	SAMPLING SCHEDULES	X	CALCULATIONS	X	ANALYSIS PROCEDURES

	YES	NO	N/A
DO ALL ANALYSTS INITIAL THEIR WORK?	X		
DO BENCH SHEETS INCLUDE ALL INFORMATION NECESSARY TO DETERMINE RESULTS?	X		
IS THE DMR COMPLETE AND CORRECT? MONTH(S) REVIEWED: May – July, 2009		X	
ARE ALL MONITORING VALUES REQUIRED BY THE PERMIT REPORTED?	X		

GENERAL SAMPLING AND ANALYSIS SECTION

	YES	NO	N/A
ARE SAMPLE LOCATION(S) ACCORDING TO PERMIT REQUIREMENTS?	X		
ARE SAMPLE COLLECTION PROCEDURES APPROPRIATE?	X		
IS SAMPLE EQUIPMENT CONDITION ADEQUATE?	X		
IS FLOW MEASUREMENT ACCORDING TO PERMIT REQUIREMENTS?	X		
ARE COMPOSITE SAMPLES REPRESENTATIVE OF FLOW?			X
ARE SAMPLE HOLDING TIMES AND PRESERVATION ADEQUATE?	X		
IF ANALYSIS IS PERFORMED AT ANOTHER LOCATION, ARE SHIPPING PROCEDURES ADEQUATE? LIST PARAMETERS AND NAME & ADDRESS OF LAB:	X		

LABORATORY EQUIPMENT SECTION

	YES	NO	N/A
IS LABORATORY EQUIPMENT IN PROPER OPERATING RANGE?	X		
ARE ANNUAL THERMOMETER CALIBRATION(S) ADEQUATE?	X		
IS THE LABORATORY GRADE WATER SUPPLY ADEQUATE?	X		
ARE ANALYTICAL BALANCE(S) ADEQUATE?			X

*** SEE LABORATORY INSPECTION REPORT SUMMARY PAGE FOR DETAILS REGARDING ASTERISKED ITEMS**

DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION
LABORATORY INSPECTION REPORT SUMMARY
10/01

FACILITY NAME:	**Dominion – Yorktown Power Station**	VPDES NO:	**VA0004103**	INSP. DATE:	**8/27/09**
LABORATORY RATING			NO DEFICIENCIES		
		X	DEFICIENCIES		

LABORATORY RECORDS

1. The Laboratory Records section has deficiencies in DMR reporting. The June DMR for outfall 103 reported the maximum semi-annual value for TSS to be 2.3 mg/l. The actual maximum was 9.7 mg/l, for sample collected March 3, 2009.
2. For parameters that do not have a permit specified QL, the results must be reported as less than the actual QL concentration (e.g. <XX). On the May DMR for outfall 002, the Total Phosphorus was reported as 0.05 mg/l. The certificates of analyses report results of 0.05 mg/l and <0.05 mg/l. The results should have been reported on the DMR as an average of <0.05 mg/l. For outfall102, the result for Total Fe was reported as 250 ug/l. The certificate of analysis reports a result of <0.25 mg/l. The results should have been reported on the DMR as <250 ug/l and <0.45 lbs/d.

Please submit revised DMRs with those corrections.

GENERAL SAMPLING AND ANALYSIS

The General Sampling and Analysis section has no deficiencies.

LABORATORY EQUIPMENT

The Laboratory Equipment section has no deficiencies.

PARAMETER SUMMARY

pH

The analysis for the parameter of pH has no deficiencies.

Total Residual Chlorine (TRC)

The analysis for the parameter of TRC has no deficiencies.

DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION
EQUIPMENT TEMPERATURE LOG/THERMOMETER VERIFICATION CHECK SHEET
1/08

FACILITY NAME:	**Dominion – Yorktown Power Station**	VPDES NO:	**VA0004103**	DATE:	**August 27, 2009**

EQUIPMENT	RANGE	IN RANGE		INSPECT READING °C	CHECK & LOG DAILY		CORRECT INCREMENT		ANNUAL THERMOMETER VERIFICATION				
									Is the NIST / NIST-Traceable Reference Thermometer within the manufacturer's expiration date or recertified yearly?				Y/N Y
									DATE CHECKED	MARKED		CORR FACTOR	INSPECT TEMP
		Y	N		Y	N	Y	N		Y	N	°C	°C
SAMPLE REFRIGER.	1-6°C	**Y**		**2.6**	**Y***		**Y**		**6/12/09**	**Y**		**0.0**	
pH METER	± 1° C	**Y**		**23.5**					**1/13/09**	**Y**		**0.4**	**18.4**

PROBLEMS: * Refrigerator checked Monday – Friday.

pH Elec

DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION
SAMPLE ANALYSIS HOLDING TIME/CONTAINER/PRESERVATION CHECK SHEET
Revised 3/08 [40 CFR, Part 136.3, Table II]

FACILITY NAME:	**Dominion – Yorktown Power Station**	VPDES NO	**VA0004103**	DATE:	**Aug. 27, 2009**

HOLDING TIMES						SAMPLE CONTAINER				PRESERVATION				
PARAMETER	APPROVED	MET?		LOGGED?		ADEQ. VOLUME		APPROP. TYPE		APPROVED	MET?		CHECKED?	
		Y	N	Y	N	Y	N	Y	N		Y	N	Y	N
TSS	7 DAYS	**X**		**X**		**X**		**X**		6°C	**X**		**X**	
FECAL COLIFORM / *E. coli / Enterococci*	6 HRS & 2 HRS TO PROCESS	**N/A**								10°C (1 HOUR)+ 0.008% $Na_2S_2O_3$				
pH	15 MIN.	**X**		**X**		**X**		**X**		N/A	**X**		**X**	
CHLORINE	15 MIN.	**X**		**X**		**X**		**X**		N/A	**X**		**X**	
TEMPERATURE	IMMERSION STAB.	**N/A**								N/A				
OIL & GREASE	28 DAYS	**X**		**X**		**X**		**X**		6°C + H_2SO_4/HCL pH<2	**X**		**X**	
TPH		**X**		**X**		**X**		**X**						
TOTAL PHOS.	28 DAYS	**X**		**X**		**X**		**X**		6°C+ H_2S0_4 pH<2	**X**		**X**	
METALS (except Hg)	6 MONTHS	**X**		**X**		**X**		**X**		HNO_3 pH<2	**X**		**X**	
PROBLEMS:										PROBLEMS:				

pH Elec

ANALYST:	Dale Ludi	VPDES NO	VA0004103

Meter: Corning 440

Parameter: Hydrogen Ion (pH)
1/08

Method: Electrometric

METHOD OF ANALYSIS:

X	18th Edition of Standard Methods – 4500-H^+ B
	21st or Online Editions of Standard Methods – 4500-H^+ B (00)

	pH is a method-defined analyte so modifications are not allowed. [40 CFR Part 136.6]	Y	N
1)	Is a certificate of operator competence or initial demonstration of capability available for each analyst/operator performing this analysis? **NOTE**: Analyze 4 samples of known pH. May use external source of buffer (different lot/manufacturer than buffers used to calibrate meter). Recovery for each of the 4 samples must be +/- 0.1 SU of the known concentration of the sample. [SM 1020 B.1]	X	
2)	Is the electrode in good condition (no chloride precipitate, scratches, deterioration, etc.)? [2.b/c and 5.b]	X	
3)	Is electrode storage solution in accordance with manufacturer's instructions? [Mfr.]	X	
4)	Is meter calibrated on at least a daily basis using three buffers all of which are at the same temperature? [4.a] **NOTE**: Follow manufacturer's instructions.	X	
5)	After calibration, is a buffer analyzed as a check sample to verify that calibration is correct? Agreement should be within +/- 0.1 SU. [4.a]	X	
6)	Do the buffer solutions appear to be free of contamination or growths? [3.1]	X	
7)	Are buffer solutions within the listed shelf-life or have they been prepared within the last 4 weeks? [3.a]	X	
8)	Is the cap or sleeve covering the access hole on the reference electrode removed when measuring pH? [Mfr.]	X	
9)	For meters with ATC that also have temperature display, is the thermometer verified annually? [SM 2550 B.1]	X	
10)	Is temperature of buffer solutions and samples recorded when determining pH? [4.a]	X	
11)	Is sample analyzed within 15 minutes of collections? [40 CFR Part 136]	X	
12)	Is the electrode rinsed and then blotted dry between reading solutions (Disregard if a portion of the next sample analyzed is used as the rinsing solution.)? [4.a]	X	
13)	Is the sample stirred gently at a constant speed during measurement? [4.b]	X	
14)	Does the meter hold a steady reading after reaching equilibrium? [4.b]	X	

PROBLEMS:

TIDEWATER REGIONAL OFFICE
L. Preston Bryant, Jr.
ecretary of Natural Resources
5636 Southern Boulevard, Virginia Beach, Virginia 23462
757) 518-2009
COMMONWEALTH OF VIRGINIA
David K. Paylor
Director
www.deq.virginia.gov
DEPARTMENT OF
Francis L. Daniel
Regional Director
L QUALITY

ANALYST:	Dale Ludi	VPDES NO.	VA0004103

Instrument: Hach DR820

Parameter: Total Residual Chlorine (TRC)
Method: DPD Colorimetric (HACH Pocket Colorimeter)
1/08

METHOD OF ANALYSIS:

X HACH Manufacturer's Instructions (Method 8167) plus an edition of *Standard Methods*

	18th Edition of *Standard Methods* 4500-Cl G
	21st Edition of *Standard Methods* 4500-Cl G (00)

		Y	N
1)	Is a certificate of operator competence or initial demonstration of capability available for each analyst/operator performing this analysis? **NOTE:** Analyze 4 samples of known TRC. Must use a lot number or source that is different from that used to prepare calibration standards. May not use Specv ™. [SM 1020 B.1]	X	
2)	Are the DPD PermaChem™ Powder Pillows stored in a cool, dry place? [Mfr.]	X	
3)	Are the pillows within the manufacturer's expiration date? [Mfr.]	X	
4)	Has buffering capability of DPD pillows been checked annually? (Pillows should adjust sample pH to between 6 and 7) [Mfr.]	X	
5)	When pH adjustment is required, is H_2SO_4 or NaOH used? [Hach 11.3.1]	X	
6)	Are cells clean and in good condition? [Mfr]	X	
7)	Is the low range (0.01 mg/L resolution) used for samples containing residuals from 0.2.00 mg/L? [Mfr.]	X	
8)	Is calibration curve developed (may use manufacturer's calibration) with daily verification using a high and a low standard? **NOTE:** May use manufacturer's installed calibration and commercially available chlorine standards for daily calibration verifications. [18th ed 1020 B.5; 21st ed 4020 B.2.b]	X	
9)	Is the 10-mL cell (2.5-cm diameter) used for samples from 0-2.00 mg/L? [Mfr.]	X	
10)	Is meter zeroed correctly by using sample as blank for the cell used? [Mfr.]	X	
11)	Is the instrument cap placed correctly on the meter body when the meter is zeroed and when the sample is analyzed? [Mfr.]	X	
12)	Is the DPD Total Chlorine PermaChem™ Powder Pillow mixed into the sample? [Hach 11.1]	X	
13)	Is the analysis made at least three minutes but not more than six minutes after PermaChem™ Powder Pillow addition? [Hach 11.2]	X	
14)	If read-out is flashing [2.20], is sample diluted correctly, and then reanalyzed? [Hach 1.2 & 2.0]	N/A	

15)	Are samples analyzed within 15 minutes of collection? [40 CFR Part 136]	X	

PROBLEMS:

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
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L. Preston Bryant, Jr.
Secretary of Natural Resources

David K. Paylor
Director

Francis L. Daniel
Regional Director

Ms. Cathy Taylor
Director, Electrical Environmental Services
5000 Dominion Blvd.
Glen Allen, VA 23060

Re: Laboratory Inspection
Dominion – Yorktown Power Station (VA0004103)

Dear Ms. Taylor:

Enclosed is a copy of the inspection report for the laboratory evaluation conducted on August 27, 2009. Please note that the Laboratory Evaluation Section of the report identifies that the Laboratory Records Section requires correction. The report identifies the specific deficiencies and makes recommendations for corrective measures.

In view of the significance attached to proper sampling and analysis of samples for use in complying with the terms of your VPDES/VPA permit, please review the attached report and make the appropriate corrections to ensure permit compliance. To avoid possible enforcement action, within fifteen (15) days of receipt of this letter send a written notification to this office of the corrective measures that you have implemented. If you have not taken corrective action and/or responded to this office in writing by the above deadline, this matter will be referred to the Regional Compliance Auditor and a Warning Letter may be issued.

If you have any questions regarding this report, please contact me or Mr. Kenneth T. Raum at the above address , telephone (757) 518-2114, or email: clyde.gantt@deq.virginia.gov.

Sincerely,

Clyde K. Gantt
CAFO / Biosolids Inspector

Enclosure

cc: DEQ/OWCP: Steve Stell
DEQ/TRO: File

pH Elec

Dominion Generation
1600 Waterview Road, Yorktown, VA 23692
Web Address: www.dom.com

July 7, 2009

CERTIFIED MAIL 7007 0710 0004 0134 7546
RETURN RECEIPT REQUESTED

Virginia Dept. of Environmental Quality
Water Division
Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, VA 23462

Re: YORKTOWN POWER STATION - NPDES DISCHARGE MON
FOR JULY 2009

Sir or Madam:

Attached are the originals and one copy of the July 2009 NPDES Dis
Station.

As you know, these reports are required by and prepared specificall
Quality (VDEQ). They represent truly, accurately, and completely t
analyses required by the State to be performed or submitted, but o
assertion of the accuracy of any instrument, readings or analytica
suitability of any analytical or measurement procedure.

Additional laboratory analyses for outfall 103 are attached. Some of
our VPDES permit, but are reported in accordance with Section II.
this period will be sent under a separate cover by our corporate Envi

As discussed with Mark Sauer of your office on July 28, we are providing the following information.
On July 28, a truck driver accidently backed into an overhead Reverse Osmosis pipeline. The line was secured Within a few minutes, but approximately 20 gallons of water entered a storm drain leading to outfall 106. No negative environmental impact has been observed.

The following outfall(s) do not have Discharge Monitoring Reports for this reporting period:

Outfall	Identification	Reason
008 & 014	Stormwater	2nd. Quarter sampling performed 04/09
010	Stormwater	Annual sampling performed 01/09
011	Stormwater	Annual sampling done 04/09
012	Stormwater	Annual sampling done 04/09
103	Coal Pile Basin	Monthly TSS 2.1ppm. Additional analyses attached.
106	Stormwater	Annual sampling performed 01/09
107,108,110	Stormwater	Annual sampling performed 01/09

If you have any questions or desire additional information, please do not hesitate to contact Richard Smith at (757) 898-2544.

Sincerely,

Joshua J. Bennett
Station Director

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

VA Department of Environmental Quality
Water Division - TRO
5636 Southern Boulevard
Virginia Beach, VA 23462

2. Article Number (transfer from service label) 7007 0710 0004 0134 7546

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☐ Agent ☐ Addressee
B. Received by (Printed Name) C. Date of Delivery 8/7/09
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

ATTACHMENT 2

DISCHARGE LOCATION/TOPOGRAPHIC MAP

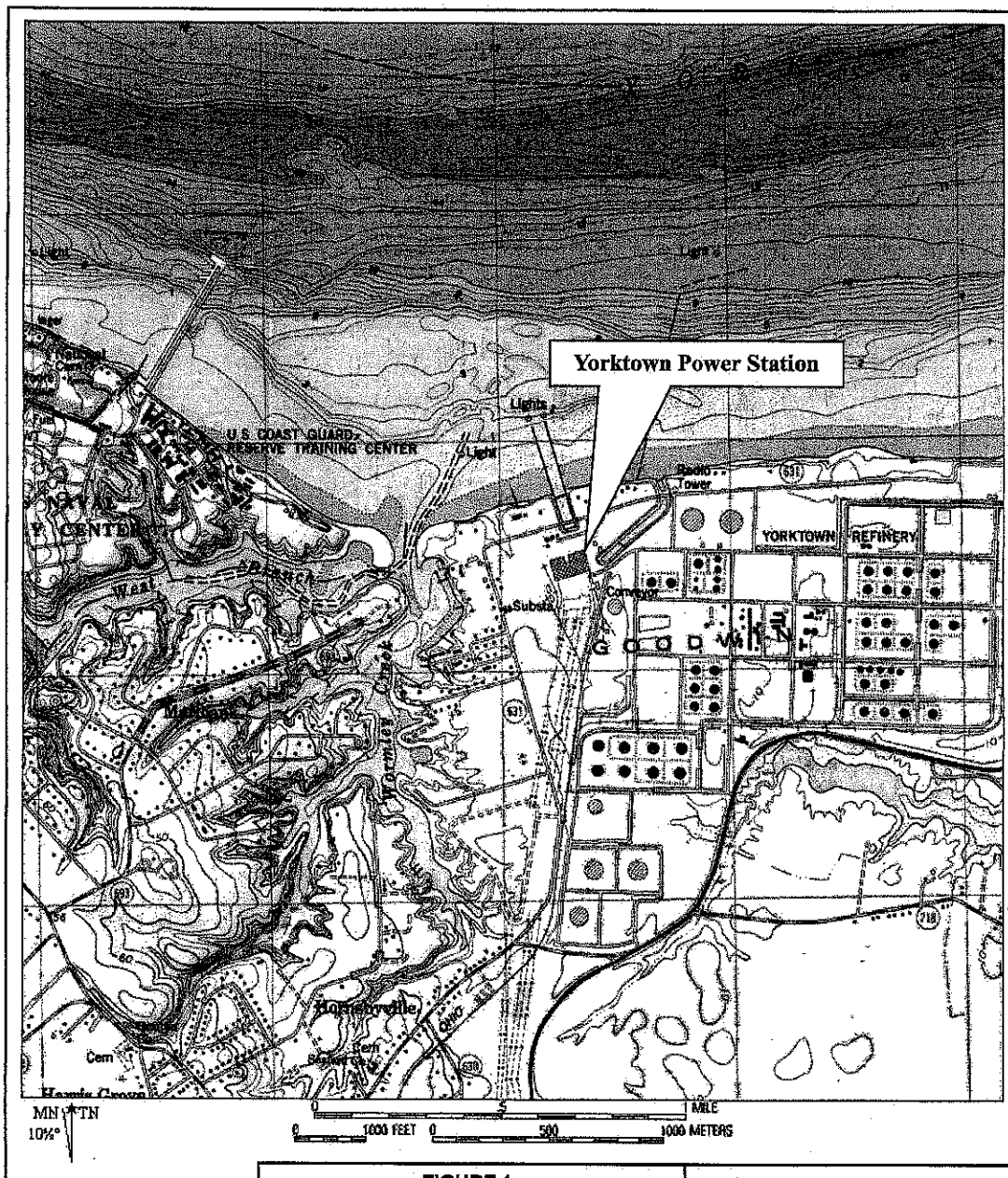
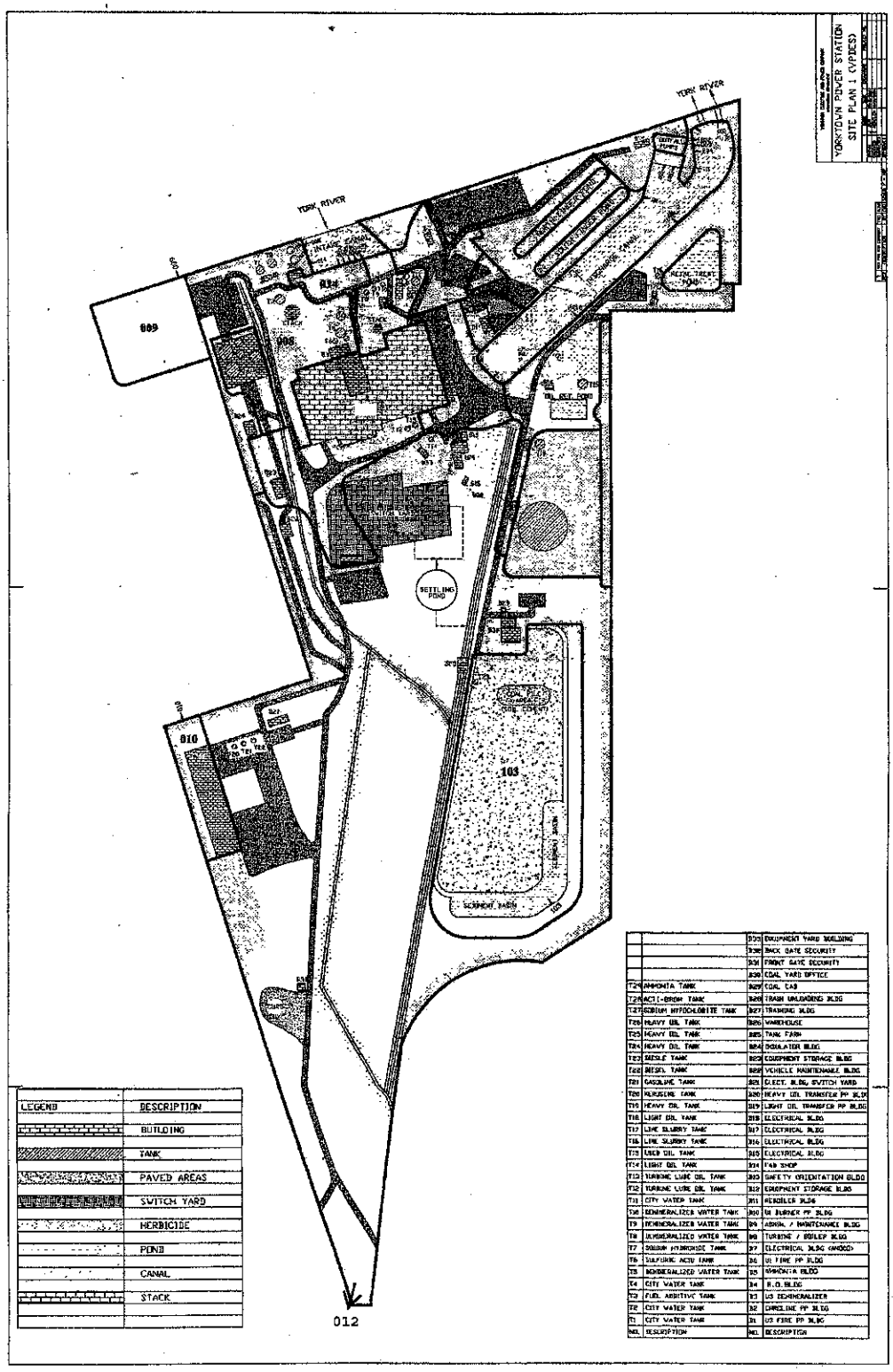


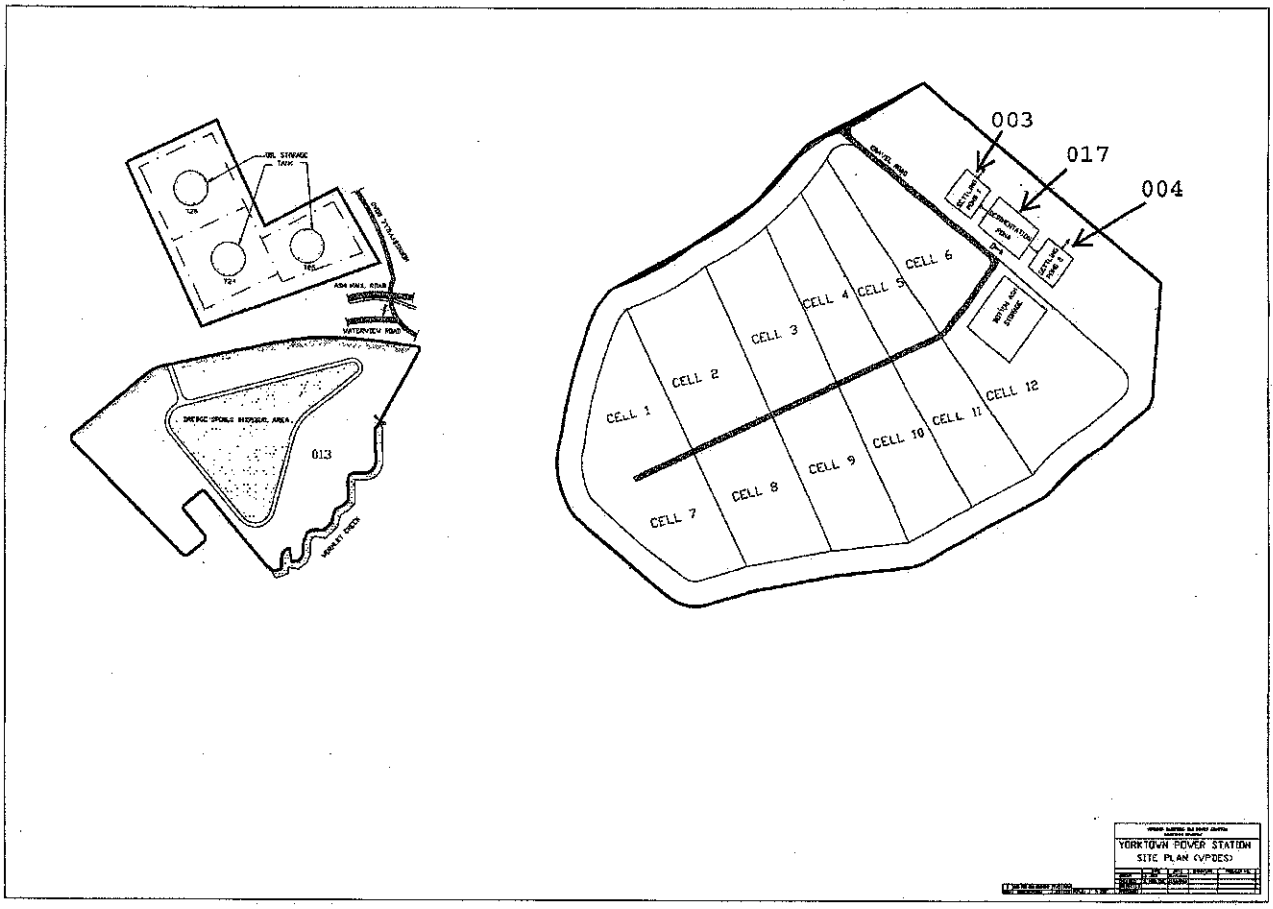
FIGURE 1		Dominion Generation Yorktown Power Station Yorktown, Virginia
Site Location Map		
Date: *July 2005*	URS Project No.: *11656251*	
Drawn by: *RAW*	Approved by: *RAW*	URS CORPORATION 5540 FALMOUTH ST., SUITE 201 RICHMOND, VA 23230
Scale: *1" = 2,000'*	File name: *SITE VICINITY MAP*	

Source: USGS Poquoson West, VA Quad, 1983
TOPO! ©2000 National Geographic Holdings



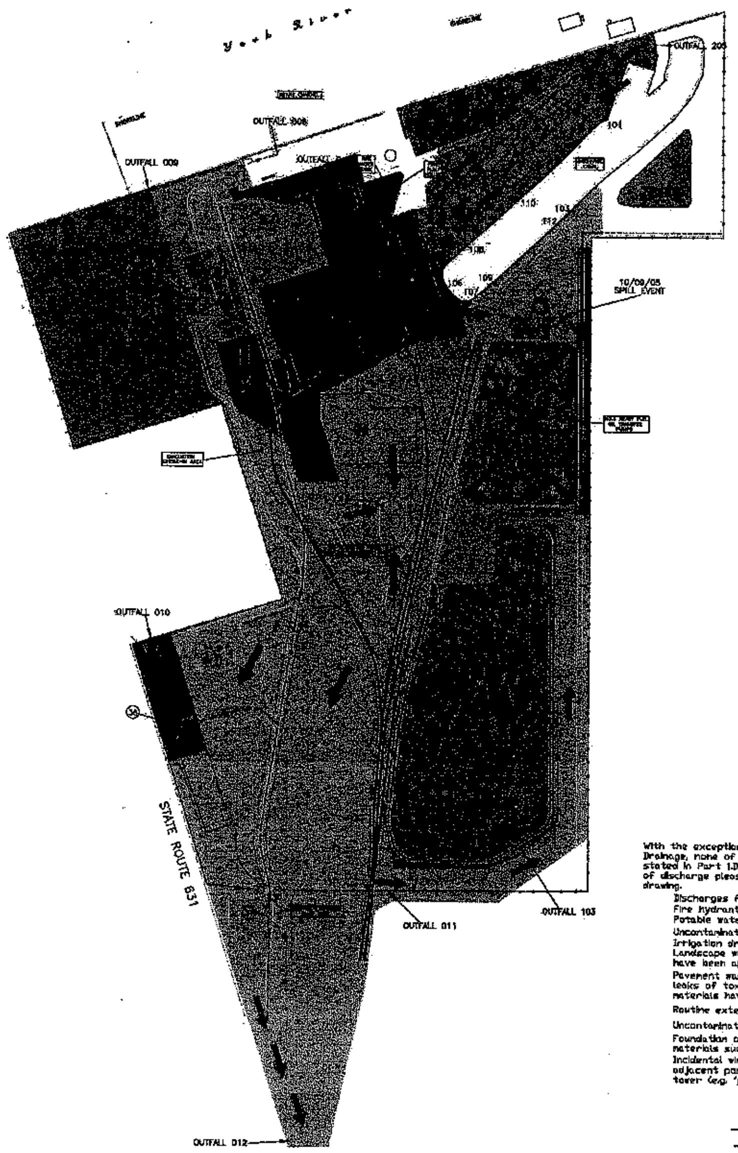
LEGEND	DESCRIPTION
	BUILDING
	TANK
	PAVED AREAS
	SWITCH YARD
	HERBICIDE
	POND
	CANAL
	STACK

		833	EQUIPMENT YARD BUILDING
		832	BACK GATE SECURITY
		831	FRONT GATE SECURITY
		830	COAL YARD OFFICE
T24	AMMONIA TANK	829	COAL CAR
T23	ACTI-BROM TANK	828	TRAIN UNLOADING BLDG
T22	SODIUM HYPOCHLORITE TANK	827	TRAINING BLDG
T20	HEAVY OIL TANK	826	WAREHOUSE
T21	HEAVY OIL TANK	825	TANK FARM
T24	HEAVY OIL TANK	824	DONATION BLDG
T27	DIESEL TANK	823	EQUIPMENT STORAGE BLDG
T28	DIESEL TANK	822	VEHICLE MAINTENANCE BLDG
T29	GASOLINE TANK	821	ELECT. BLDG, SWITCH YARD
T30	KEROSENE TANK	820	HEAVY OIL TRANSFER PP BLDG
T15	HEAVY OIL TANK	319	LIGHT OIL TRANSFER PP BLDG
T16	LIGHT OIL TANK	318	ELECTRICAL BLDG
T17	LIME SLURRY TANK	317	ELECTRICAL BLDG
T18	LIME SLURRY TANK	316	ELECTRICAL BLDG
T19	USED OIL TANK	315	ELECTRICAL BLDG
T14	LIGHT OIL TANK	314	PAD SHOP
T13	TURBINE LUBE OIL TANK	313	SAFETY ORIENTATION BLDG
T12	TURBINE LUBE OIL TANK	312	EQUIPMENT STORAGE BLDG
T11	CITY WATER TANK	311	REBOILER BLDG
T10	DEMINERALIZED WATER TANK	310	U4 BURNER PP BLDG
T9	DEMINERALIZED WATER TANK	309	ADMIN. / MAINTENANCE BLDG
T8	DEMINERALIZED WATER TANK	308	TURBINE / BOILER BLDG
T7	SODIUM HYDROXIDE TANK	307	ELECTRICAL BLDG (ANNEX)
T6	SULFURIC ACID TANK	306	U3 FIRE PP BLDG
T5	DEMINERALIZED WATER TANK	305	AMMONIA BLDG
T4	CITY WATER TANK	304	R.O. BLDG
T3	FUEL ADDITIVE TANK	303	U3 DEMINERALIZER
T2	CITY WATER TANK	302	GASOLINE PP BLDG
T1	CITY WATER TANK	301	U3 FIRE PP BLDG
NO.	DESCRIPTION	NO.	DESCRIPTION


OIL STORAGE TANK
INTERVIEW ROAD
DREDGE SPOILS DISPOSAL AREA
013
003
017
004
CELL 1
CELL 2
CELL 3
CELL 4
CELL 5
CELL 6
CELL 7
CELL 8
CELL 9
CELL 10
CELL 11
CELL 12
YORKTOWN POWER STATION
SITE PLAN (VPDES)

ATTACHMENT 3

SCHEMATIC/PLANS & SPECS/SITE MAP/ WATER BALANCE



This map is included in the existing SWPPP and is based on the requirements of the existing VPDES permit and 2007 application; as the effective VPDES permit includes outfalls 011, 106, 107, 108, 109, 110, 112 and 205, this diagram has not been update to reflect the request to remove those outfalls. An updated drainage map will be incorporated into the revised SWPPP in accordance with the requirements of the reissued VPDES permit.

- A Lay Down Area
- B Vehicle Maintenance Building
- C Metal Dumpster
- D General Refuse Dumpster
- E Combustion Catalyst Tank & Unloading
- F Fuel Oil Additive & Unloading (10,000 gal)
- G Sodium Hypochlorite Tank & Unloading
- H Actobrom Tank & Unloading
- I Ammonium Hydroxide Tank & Unloading
- J Retaining Tanks 1.) Hypochlorite
  2.) Bromine Additive
- K Lime Slurry Tanks
- L Welding Shop
- M Coal Conveyors
- N Coal Unloading Building
- O Ash Unloading Silos

OTHER FACILITIES

37. STATION ENTRANCE & MAIN GATE – EVACUATION AND EGRESS ROUTE.
38. FACILITY EVACUATION AREA & CHECK-IN @ WAREHOUSE.
40. SWITCHYARD.

SURFACE IMPOUNDMENTS

41. NORTH SETTLING POND
42. SOUTH SETTLING POND

HAZARDOUS MATERIAL STORAGE

43. UNIT 3 DEMINERALIZER ACID AND CAUSTIC TANKS.
44. HAZARDOUS WASTE ACCUMULATION AREA.

With the exception of Fire Hydrant Flushings and Demineralized Trailer Drainage, none of the following allowable Non-Stormwater Discharges as stated in Part I.D.1.f of the VPDES permit occur routinely. For location of discharge please orient the activity location on the following drawing.

Discharges from fire fighting activities;
Fire hydrant flushings;
Potable water including water line flushings;
Uncontaminated air conditioning or compressor condensate;
Irrigation drainage;
Landscape watering provided all pesticides, herbicides and fertilizer have been applied in accordance with manufacturer's instructions;
Pavement wash water where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled materials have been removed);
Routine external building wash down which does not use detergents;
Uncontaminated ground water or spring water;
Foundation or footing drains where flows are not contaminated with process materials such as solvents;
Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from cooling tower (e.g. 'piped' cooling tower blowdown or drains).

LEGEND

- APPROXIMATE EXTENT OF ABOVEGROUND FUEL OIL PIPING
- FENCE
- RAILROAD SPUR
- EVACUATION ROUTE
- LOCATION OF SPILL RESPONSE EQUIPMENT (SPILL RESPONSE TRAILER)
- LOCATION OF COMMUNICATION EQUIPMENT
- DRAINAGE PIPE
- DRAINAGE DITCH
- DRAINAGE FLOW
- * SPILL LOCATION

0 150 300 600
SCALE IN FEET APPROXIMATE

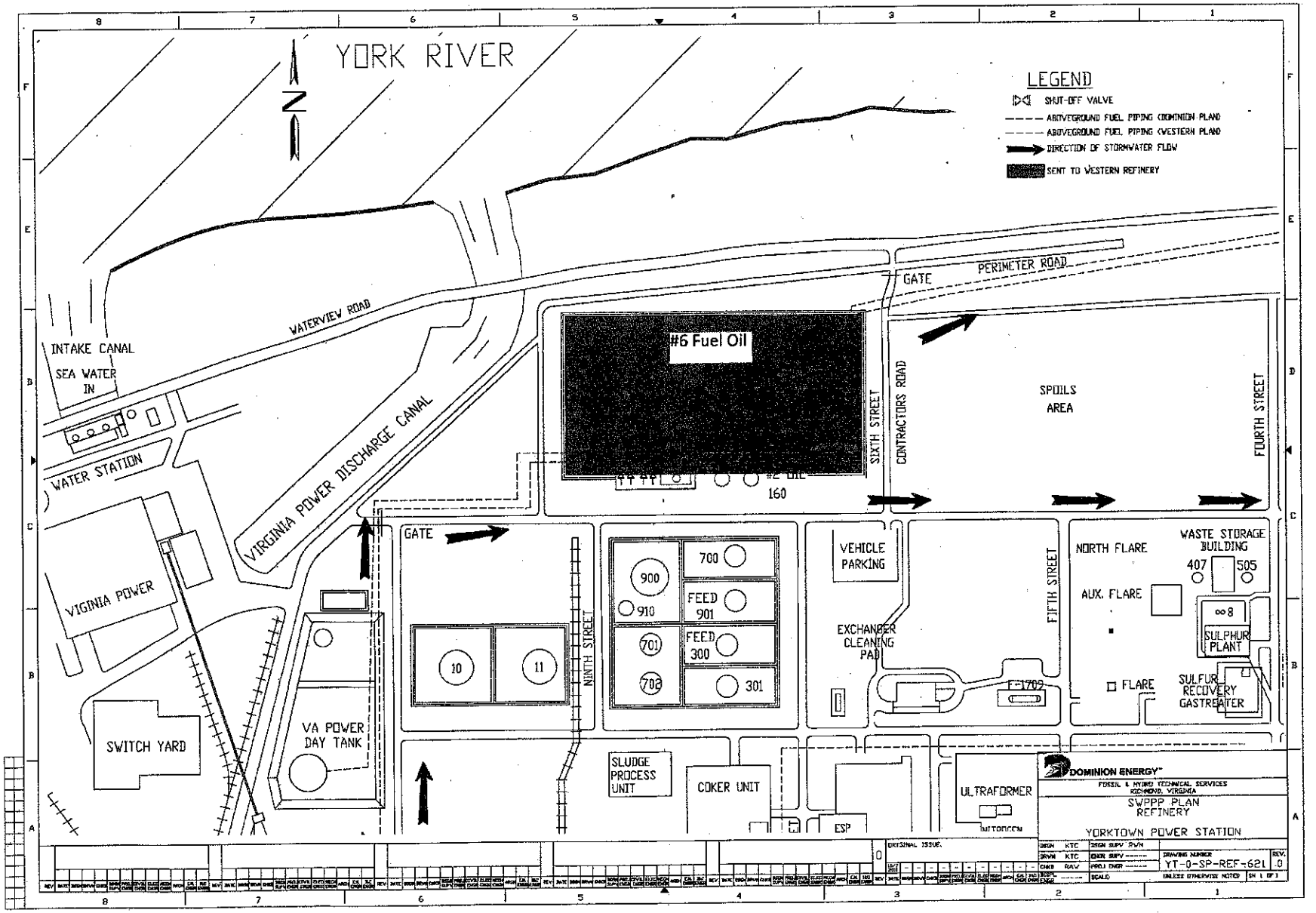
- VPDES DRAINAGE
- DRAINAGE AREA (APPROXIMATELY 107 ACRES) FOR OUTFALL 003. APPROXIMATELY 6% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY 46.40 ACRES) FOR OUTFALL 08. APPROXIMATELY 5% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY 6.08 ACRES) FOR OUTFALL 109. APPROXIMATELY 10% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY [illegible] ACRES) FOR OUTFALL 112. APPROXIMATELY 5% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY 2.77 ACRES) FOR OUTFALL 205. APPROXIMATELY 5% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY 0.82 ACRES) FOR OUTFALL 108. APPROXIMATELY 30% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY 107 ACRES) FOR OUTFALL 110. APPROXIMATELY 18% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY [illegible] ACRES) FOR OUTFALL 106. APPROXIMATELY 60% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY 0.7 ACRES) FOR OUTFALL 011. APPROXIMATELY 40% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY 4.77 ACRES) FOR OUTFALL 008. APPROXIMATELY 30% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY [illegible] ACRES) FOR OUTFALL 107. APPROXIMATELY 85% IMPERVIOUS SURFACES.
- DRAINAGE AREA (APPROXIMATELY [illegible] ACRES) FOR OUTFALL 009. APPROXIMATELY 6% IMPERVIOUS SURFACES.
- SHEET FLOW

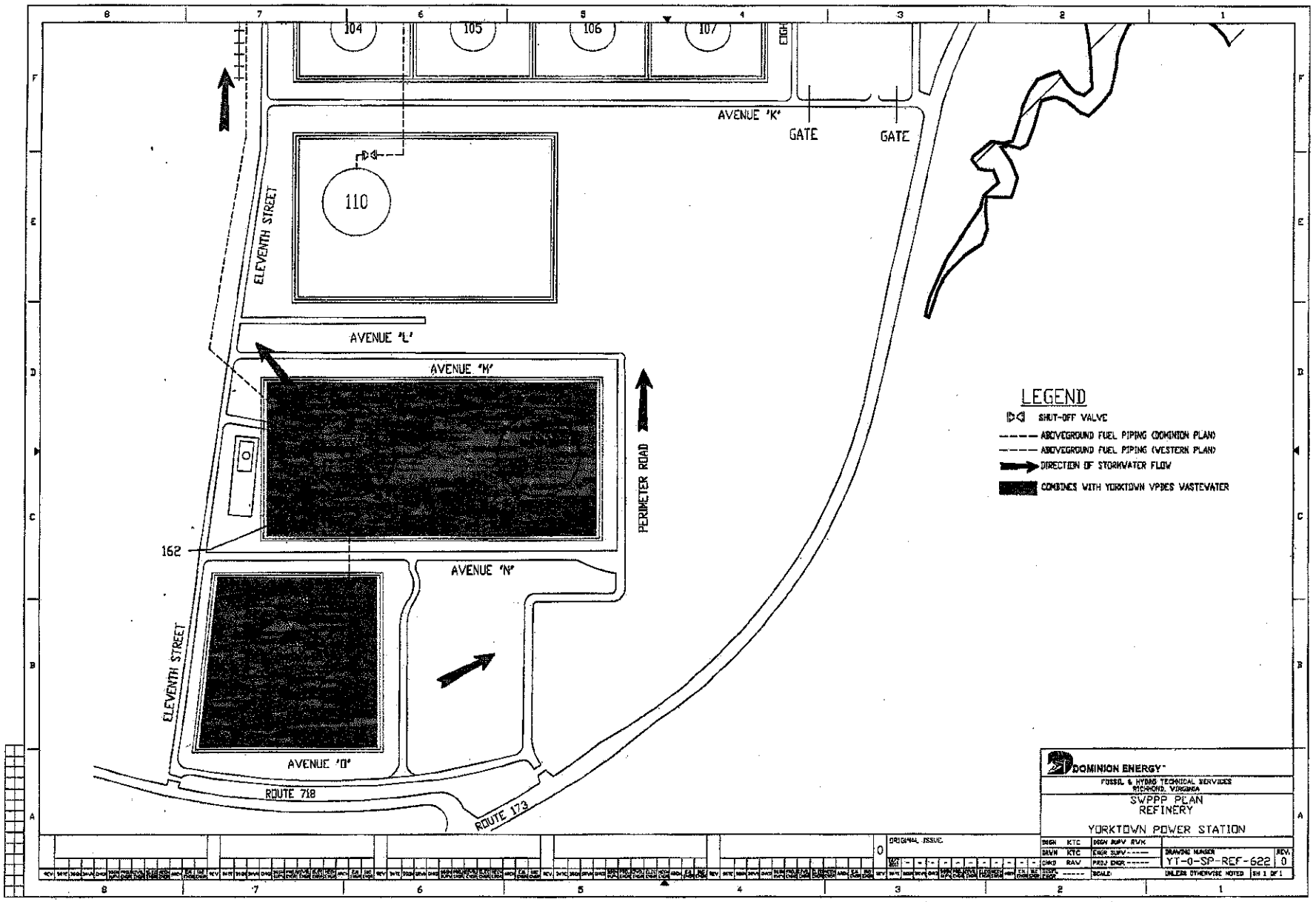
REV	DESCRIPTION
2	REVISED PER ENVIRONMENTAL REDLINE.
1	ADDED DUMPSTERS, STOCKPILE, LAYDOWN, OUTFALL 011, AND SPILL EVENT LOCATIONS
3	REVISED PER ENVIRONMENTAL REDLINE. ADDED "103" AND DRAINAGE NOTES.

Dominion®
FOSSIL & HYDRO TECHNICAL SERVICES
RICHMOND, VIRGINIA

SITE PLAN
STORM WATER EXPOSURES
YORKTOWN POWER STATION

DSGN ------	DSGN SUPV ------		
DRWN SWC	ENGR SUPV ------	DRAWING NUMBER YT-0-SP-STA-622	REV. 3
CHKD BWP	LEAD ENGR ------		
DISPL. ENGR ------	SCALE N/A	UNLESS OTHERWISE NOTED.	SH 1 OF 1


YORK RIVER
LEGEND
SHUT-OFF VALVE
ABOVEGROUND FUEL PIPING (DOMINION PLANT)
ABOVEGROUND FUEL PIPING (WESTERN PLANT)
DIRECTION OF STORMWATER FLOW
SENT TO WESTERN REFINERY
WATERVIEW ROAD
INTAKE CANAL
SEA WATER IN
WATER STATION
VIRGINIA POWER DISCHARGE CANAL
VIGINIA POWER
SWITCH YARD
VA POWER DAY TANK
GATE
PERIMETER ROAD
#6 Fuel Oil
#2 OIL
160
SIXTH STREET
CONTRACTORS ROAD
SPOILS AREA
FOURTH STREET
NINTH STREET
900
910
700
FEED 901
701
702
FEED 300
301
10
11
VEHICLE PARKING
EXCHANGER CLEANING PAD
FIFTH STREET
F-1709
NORTH FLARE
WASTE STORAGE BUILDING
407
505
AUX. FLARE
∞8
SULPHUR PLANT
FLARE
SULFUR RECOVERY GASTREATER
SLUDGE PROCESS UNIT
COKER UNIT
ESP
ULTRAFORMER
HYDROGEN
DOMINION ENERGY
FOSSIL & HYDRO TECHNICAL SERVICES
RICHMOND, VIRGINIA
SWPPP PLAN
REFINERY
YORKTOWN POWER STATION
ORIGINAL ISSUE.
DRAWING NUMBER
YT-0-SP-REF-621
REV. 0
UNLESS OTHERWISE NOTED
SH 1 OF 1


104
105
106
107
110
162
AVENUE 'K'
GATE
GATE
ELEVENTH STREET
AVENUE 'L'
AVENUE 'M'
AVENUE 'N'
AVENUE 'O'
PERIMETER ROAD
ELEVENTH STREET
ROUTE 718
ROUTE 173
LEGEND
SHUT-OFF VALVE
ABOVEGROUND FUEL PIPING (DOMINION PLAN)
ABOVEGROUND FUEL PIPING (WESTERN PLAN)
DIRECTION OF STORMWATER FLOW
COMBINES WITH YORKTOWN VPDES WASTEWATER
DOMINION ENERGY
FOSSIL & HYDRO TECHNICAL SERVICES
RICHMOND, VIRGINIA
SWPPP PLAN
REFINERY
YORKTOWN POWER STATION
ORIGINAL ISSUE
DRAWING NUMBER
YT-0-SP-REF-622
REV. 0

ATTACHMENT 4

TABLE I - DISCHARGE/OUTFALL DESCRIPTION

TABLE I

NUMBER AND DESCRIPTION OF OUTFALLS

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
001	37°13'1" 76°27'27"	Condenser Cooling Water; internal outfalls 101, 102, 103, 104, 105, 106, 107, 108,109, 110, 111, 112	Thermal diffusion	476.3 MGD
101*	37°12'54" 76°27'33"	Finger Ponds (low volume wastes including but not limited to: boiler blowdown, surge tank overflow, pyrite hydrobin overflow, Unit 3 boiler seal trough, demineralizer wastes, stack washes, mechanical dust collector drains, air preheater drains, boiler slope washes, pan washes, localized boiler tube rinsing, clinker removal, acid and caustic tank dike, ammonia tank 9no longer in use) dike and other sources of storm water, oil retention pond)	Flow equalization, sedimentation, skimming, floatation (oil retention pond only)	2.41 MGD
102*	37°13'0" 76°27'24"	Metals cleaning pond: Units 1-3 ESP wash, air preheater wash, units 1-3 boiler wash, ductwork wash, turbine wash, boiler tube washdown, coal fly ash leachate tank, alternative flow for Low volume waste	Sedimentation	0.24 MGD
103*	37°12'59" 76°27'28"	Storm water - coal pile runoff, vehicle washwater, "rainbird" water used in dust suppression activities (potable)	Sedimentation	1.538 MGD
104*	37°13'41" 76°27'9"	Coal flyash leachate tank Internal discharge to 102-metal cleaning pond	Sedimentation	Currently discharges to HRSD (0.020 MGD)

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
105*	37°11'12" 76°28'12"	Dewatering of outfall pumps during maintenance		Varies
106*	37°13'0" 76°27'45"	Storm water from the area in the vicinity of the units 1 & 2 turbine building, administrative building, and maintenance building (regulated industrial activity)		Varies
107*	37°13'0" 76°27'45"	Storm water from roof drains, main station transformers, and a portion of the switchyard (regulated industrial activity) (substantially identical to 108 and 110)		Varies
108*	37°13'0" 76°27'45"	Storm water from paved areas in the area of the head of the discharge canal (regulated industrial activity) (substantially identical to 107 and 110)		Varies
109*	37°11'21" 76°28'13"	Storm water from the south side of the condenser cooling water canal, including oil transfer areas and petroleum storage areas (regulated industrial activity)		Varies
110*	37°13'0" 76°22'45"	Storm water from the north side of the condenser cooling water canal, including paved areas near and easement of the oil company and the old guardhouse (regulated industrial activity) (substantially identical to 107 and 108)		Varies
112*	37°11'21" 76°28'12"	Storm water from the area adjacent to the fence line next the refinery property line, not associated with industrial activity		Varies

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
002	37°13'1" 76°27'27"	Weir discharge of condenser cooling water; all internal outfalls	Thermal diffusion	248.3 MGD
202*	37°11'22" 76°28'12"	Outfall pumps pit sump		0 MGD Out of service
203*	37°11'21" 76°28'12"	Outfall pumps pit sump back up		Varies
204*	37°11'21" 76°26'14"	Outfall pumps cooling /sealing water		0.01152 MGD
111*	37°13'0" 76°27'24"	Intake screen wash		1.872 MGD
205*	37°11'21" 76°28'12"	Storm water		Varies
003	37°11'21" 76°28'12"	Sediment pond #1: storm water runoff from ash landfill, truckwash wastewater, runoff from dust suppression activities	Sedimentation and neutralization	1.472 MGD
004	37°11'18" 76°28'7"	Sediment pond #2: storm water runoff from ash landfill	Sedimentation and neutralization	0.05 MGD
005	37°12'57" 76°27'43"	Unit 1 condenser backwash		79.2 MGD
006	37°12'57" 76°27'43"	Unit 2 condenser backwash		79.2 MGD
007	37°12'57" 76°27'43"	Dewatering of intake pump structure and header		Varies
008	37°12'57" 76°27'45"	Storm water from Unit 3 stack and ash handling areas (regulated industrial activity) (substantially identical to outfall 014)		0.013 MGD
009	37°12'55" 76°27'53"	Storm water from northwest corner of the station including gravel lots and grass areas (non-industrial)		0.007 MGD
010	37°12'40" 76°27'50"	Storm water from warehouse area (regulated industrial activity)		0.005 MGD

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
011	37°11'55" 76°28'4"	Storm water from switchyard, security building, coalyard service building, access roads, parking lots, maintenance building for coal yard, coal conveyors, coal shaker building, coal unloading building, fuel pumps(regulated industrial activity)		Varies
012	37°12'0" 76°27'49"	Storm water from area containing a portion of the ash haul road(regulated industrial activity)		0.006 MGD
013	37°12'3" 76°27'50"	Storm water - not associated with a regulated industrial activity		0.089 MGD
014	37°12'57" 76°27'44"	Storm water from area including the service road for intake cooling water pumps(regulated industrial activity)(substantially identical to outfall 008)		0.002 MGD
015	37°12'57" 76°27'41"	Storm water from a cable trough located in the vicinity of cooling water intake pumps		0.003 MGD
016	37°12'57" 76°27'43"	Intake leak collection pit		Varies
017	37°12'54" 76°27'33"	Ash landfill hydrostatic pressure relief system under the center pond; uncontaminated groundwater		

(1) List operations contributing to flow
(2) Give brief description, unit by unit
(3) Give maximum 30-day average flow for industry and design flow for municipal
* Indicates internal outfall

ATTACHMENT 5

TABLE II - EFFLUENT MONITORING/LIMITATIONS

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 001
Outfall Description: Condenser cooling water - outfall pumps discharge; internal outfalls 101, 102, 103,104, 105, 106, 107, 108, 109, 110, 112.
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/Day	Calculated
pH (S.U.)	3		NA	6.0	9.0	2/Month	Calculated [d]
Total Residual Chlorine (mg/l) [a]	2		0.021	NA	0.026	2/Month	Calculated [d]
Total Phosphorus (mg/l)	3		NA	NA	2.0	1/6 Months	Calculated [d]
Temperature (^{0}C)	2		NA	NA	[b]	1/Year	[b]
Heat Rejection (BTU/Hr) [c]	3		NA	NA	57.41 x 10(8)	Continuous	Recorded

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).
1/Year = Between January 1 and December 31.
Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.B.15. for Thermal Mixing Zone requirements.
[c] See Part I.B.14. Heat rejection is the total heat rejected for outfalls 001 and 002 at the facility.
[d] Samples shall be collected at outfall 002 and shall be calculated for outfall 001 based on these samples.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 002

Outfall Description: Condenser cooling water - weir discharge. Sampling Point shall be downstream of the weir just prior to discharge under Waterview Road; internal outfalls 202, 203, 204, 205, and 111.

SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/Day	Calculated
PH (s.u.)	3		NA	6.0	9.0	2/Month	Grab
Total Residual Chlorine (mg/l) [a]	2		0.021	NA	0.026	2/Month	Grab
Total Phosphorus (mg/l)	3		NA	NA	2.0	1/6 Months	Grab
Temperature (^{0}C)	2		NA	NA	[b]	1/Year	[b]
Heat Rejection (BTU/Hr) [c]	3		NA	NA	NL	Continuous	Recorded
TSS (mg/l) [a]	14		NA	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [a]	14		NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [a]	14		NA	NA	NL	1/Year	Grab
Enterococci (n/cml)	3		NA	NA	NL	1/3 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
[b] See Part I.B.15. for Thermal Mixing Zone requirements.
[c] See Part I.B.14.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment
14. Best Professional Judgment for storm water discharges in the steam electric category (14)

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL #003 and 004
Outfall Description: Storm water from the ash landfill sediment ponds - 003 pond #1; 004 pond #2 (valved)
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/Month	Estimate
pH	3		NA	6.0	9.0	1/Month	Grab
Total Suspended Solids (mg/l)	1		30	NA	100	1/Month	Grab
Oil & Grease	1		15	NA	20	1/Month	Grab
Total Phosphorus (mg/l)	3		NA	NA	2.0	1/6 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY; I.S. = Immersion Stabilization

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 005 and 006
Outfall Description: 005-Unit 1 condenser backwash; 006-Unit 2 condenser backwash
SIC CODE: 4911

(X) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

These outfalls shall contain backwash water from Unit 1 condenser (outfall 005) and the Unit 2 condenser (outfall 006) only. No process wastewater shall be discharged from these outfalls. No monitoring or reporting is required.

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 007, 016, 017, 105, 202, 203 and 204
Outfall Description: 007-Intake pump(s) maintenance dewatering; 016-Intake pump(s) leak collection pit; 017-hydrostatic relief system under the center pond of the ash landfill; 105-outfall pumps maintenance dewatering; 202-outfall pumps pit sump; 203-outfall pumps pit sump backup; 204-outfall pumps cooling and seal water
SIC CODE: 4911

(X) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

These outfalls shall contain discharge from the dewatering of the intake pump(s)(007), intake pump(s) leak collection pit (016), hydrostatic relief system (017), outfall pumps maintenance dewatering (105), outfall pumps pit sump (202), outfall pumps pit sump backup (203), and outfall pumps cooling and seal water (204) only. No process wastewater shall be discharged from these outfalls. No monitoring or reporting is required.

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 008 and 014
Outfall Description: Regulated storm water runoff from an industrial activity area; 008 - unit 3 area, ash handling areas; 014 - service road for intake cooling water pump
SIC CODE: 4911

PARAMETER & UNITS	STORM REGS. 1-29* Or BPJ	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE [c]
Flow (MG)	BPJ-14	NA	NL	1/3 Months	Estimate [b]
pH (s.u.)	BPJ-14	NL	NL	1/Year	Grab
TSS (mg/l) [d]	BPJ-14	NA	NL	1/Year	Grab
TPH (mg/l) [d]	BPJ	NA	NL	1/Year	Grab
Total Phosphorus (mg/l)	BPJ	NA	2.0	1/Year	Grab
Dissolve Nickel (ug/l) [d][e]	BPJ	NA	NL	1/3 Months	Grab
Dissolve Copper (ug/l) [d][e]	BPJ	NA	NL	1/3 Months	Grab
Dissolve Zinc (ug/l) [d][e]	BPJ	NA	NL	1/3 Months	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

These outfalls are considered substantially identical; 008 may be sampled for 014; sample results shall be reported for both outfalls.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.
[e] See Part I.D. for Storm Water Evaluation requirements.

The bases for the limitations codes are:
Best Professional Judgment for storm water in category of steam electric facilities (14)

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 009, 013, 112 and 205
Outfall Description: Storm water outfalls not associated with a regulated industrial activity
SIC CODE: 4911

(X) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

These outfalls shall contain only storm water not associated with a regulated industrial activity. There shall be no discharge of process wastewater from these outfalls. No monitoring or reporting is required.

TABLE II – STORM WATER EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 106, 107, 108, 109, 110, 015
Outfall Description: Storm water outfalls associated with a regulated industrial activity
SIC CODE: 4911

(X) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

These outfalls shall contain only storm water associated with a regulated industrial activity. There shall be no discharge of process wastewater from these outfalls. No monitoring or reporting is required.

OUTFALL #010
Outfall Description: Regulated storm water runoff from industrial activity areas - warehouse area
SIC CODE: 4911

PARAMETER & UNITS	STORM CATEGORY 1-29 or BPJ	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE [c]
Flow (MG)	BPJ-14	NA	NL	1/Year	Estimate [b]
pH (S.U.)	BPJ-14	NL	NL	1/Year	Grab
TSS (mg/l) [d]	BPJ-14	NA	NL	1/Year	Grab
TPH (mg/l) [d]	BPJ	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [d]	BPJ-14	NA	NL	1/Year	Grab

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

The basis for the limitations codes are:
Best Professional Judgment for storm water discharges in the steam electric category (14)

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 011 and 012
Outfall Description: regulated storm water runoff from industrial activity areas - switchyard, coal handling areas, maintenance, security and coal unloading buildings and access roads 011; area containing section of ash haul road 012
SIC CODE: 4911

PARAMETER & UNITS	STORM CATEGORY 1-29 or BPJ	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE [c]
Flow (MG)	BPJ-14	NA	NL	1/Year	Estimate [b]
pH (S.U.)	BPJ-14	NL	NL	1/Year	Grab
TSS (mg/l)[d]	BPJ-14	NA	NL	1/Year	Grab
TPH (mg/l)[d]	BPJ	NA	NL	1/Year	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] The grab sample shall be taken within the first hour but not later than 24 hours of the discharge.
[d] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

The basis for the limitations codes are:
Best Professional Judgment for storm water discharges in the steam electric category (14)

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL #101
Outfall Description: North and South Ash Finger Ponds
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/Month	Estimate
Total Suspended Solids (mg/l)	1		30	NA	100	1/Month	Grab
Oil & Grease (mg/l)	1		15	NA	20	1/Month	Grab
Enterococci (n/cml)	3		NA	NA	NL	1/Year	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL #102
Outfall Description: Metals cleaning basin
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS [a]	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NL	NA	NL	1/Month	Measured
Total Suspended Solids (mg/l)	1		30	NA	100	1/Month	Grab
Total Suspended Solids (lbs/day)	1		175	NA	584	1/Month	Grab
Oil & Grease (mg/l)	1		15	NA	20	1/Month	Grab
Oil & Grease (lbs/day)	1		88	NA	117	1/Month	Grab
Total Copper (ug/l)	1		1000	NA	1000	1/Month	Grab
Total Copper (lbs/day)	1		6	NA	6	1/Month	Grab
Total Iron (ug/l)	1		1000	NA	1000	1/Month	Grab
Total Iron (lbs/day)	1		6	NA	6	1/Month	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] Unless otherwise approved, the sample shall be collected at the point where the recirculation line discharges into the line mixing basin. No wastewater shall be added to the basin after the sample is collected prior to the discharge for the sample period.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL #103
Outfall Description: Regulated storm water from coal pile runoff (valved)
SIC CODE: 4911

PARAMETER & UNITS	Basis For Limits	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3	NA	NL	1/6 Months	Estimate
TSS (mg/l) [a]	1	NA	50	1/6 Months	Grab
Dissolved Copper (ug/l) [b]	3	NA	NL	1/Year	Grab
Dissolved Nickel (ug/l) [b]	3	NA	NL	1/Year	Grab
Dissolved Arsenic (ug/l) [b]	3	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [b]	3	NA	NL	1/Year	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.B.12. for Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm.
[b] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL #104
Outfall Description: Coal Fly Ash Leachate Tank
SIC CODE: 4911

(x) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS [a]	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3		NA	NA	NL	1/Month	Measured
Dissolved Copper (ug/l)[a]	3		NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l)[a]	3		NA	NA	NL	1/Year	Grab

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

The basis for the limitations codes are:
1. Technology (e.g., Federal Effluent Guidelines)
2. Water Quality Standards (9 VAC 25-260 et. seq.)
3. Best Professional Judgment

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING (CONTINUED)

OUTFALL # 111
Outfall Description: Intake Screen Wash
SIC CODE: 4911

(X) Final Limits ( ) Interim Limits Effective Dates - From: Issuance To: Expiration

This outfall shall contain discharge from the washing of the intake screen(s). No other wastewater shall be discharged from these outfalls. No monitoring or reporting is required. See Part I.B.9. for additional requirements.